

This guide has been prepared by CTB/McGraw-Hill to provide an overview for interpreting reports generated from the Missouri Assessment Program (MAP) for Communication Arts and Mathematics. It is intended to help educators apply MAP data to the needs of individual students and the district as a whole. This guide applies to Communication Arts and Mathematics ONLY. For Science and Social Studies, please refer to the 2005 Guide to Interpreting Results, located online at: http://dese.mo.gov/divimprove/sia/dar/GIR\_Spring05\_MO.pdf

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# **Education Assessment: A Primary Tool**

Assessment, or testing, fulfills a vital role in today's education environment. Assessment results often are a major force in shaping public perceptions about the capabilities of our students and the quality of our schools. As a primary tool for educators and policymakers, assessment is used for many important purposes. Educators use assessment results to help improve teaching and learning. They also use assessment results to evaluate programs and schools. Assessment is also used to generate the data upon which policy decisions are made. Because of the important roles it performs, educational assessment is a foundation activity in every school, district, and state. It is a vital complement to innovation, higher standards, and educational excellence.

The Missouri Assessment Program (MAP) is one of several educational reforms mandated by the Outstanding Schools Act of 1993. As a result of this act, the State Board of Education directed the Missouri Department of Elementary and Secondary Education to identify the knowledge, skills, and competencies that Missouri students should acquire by the time they complete high school and to evaluate student progress toward those academic standards. The Department worked with teachers, school administrators, parents, and business professionals from throughout the state to develop the Show-Me Standards/GLE Strands. The Department has worked with the same constituencies to develop an assessment system that evaluates students' proficiencies as represented by the Show-Me Standards/GLE Strands.

The Spring 2006 MAP includes the following assessments:

#### Required

Communication Arts for Grades 3-8 and 11 Mathematics for Grades 3-8 and 10

# **Voluntary**

Science for Grades 3, 7, and 10 Social Studies for Grades 4, 8, and 11

Each assessment could require three to five hours of test administration time and may include any of three types of test items: selected-response items, constructed-response items, and performance events (including writing prompts).

The selected-response (also known as multiple-choice) items present students with a question followed by three or four response options. For the Communication Arts and Mathematics assessments, a subset of selected-response items are taken from the Survey edition of TerraNova<sup>®</sup>, The Second Edition, a nationally normed test developed by CTB/McGraw-Hill. For the Science and Social Studies assessments, Session 3, Part 1, is also from TerraNova.

The **constructed-response items** require students to supply (rather than select) an appropriate response. Students are asked to show their work in answering questions. In addition to measuring students' content knowledge, constructed-response items provide information about how students arrive at their answers.

The **performance events** used in Missouri's statewide assessment require students to work through more complicated items. Performance events often allow for more than one approach to get a correct answer. The advantage of this type of assessment item is that it provides insight into a student's ability to apply knowledge and understanding in real-life situations.

The writing prompt, a special type of performance event that appears in the Communication Arts assessment, is an open-ended item that requires students to demonstrate their writing proficiency. Writing is scored holistically using a four-point scoring guide.

The Department uses the information obtained through MAP to monitor the progress of Missouri's students in meeting the Show-Me Standards/GLE Strands, to inform the public and the state legislature about students' performance, and to help make informed decisions about educational issues. The information obtained through MAP provides data that help improve student services in the state.



# Show-Me Content Standards/GLE Strands

MAP items are aligned with the Show-Me Standards/GLE Strands. The Show-Me Content Standards/GLE Strands are grouped by content area.

# **Communication Arts**

In Communication Arts, students in Missouri public schools will acquire a solid foundation that includes knowledge of and proficiency in

- speaking and writing Standard English (including grammar, usage, punctuation, spelling, capitalization)
- 2. reading and evaluating fiction, poetry, and drama
- reading and evaluating nonfiction works and material (such as biographies, newspapers, technical manuals)
- 4. writing formally (such as reports, narratives, essays) and informally (such as outlines, notes)
- comprehending and evaluating the content and artistic aspects of oral and visual presentations (such as storytelling, debates, lectures, multi-media productions)
- participating in formal and informal presentations and discussions of issues and ideas
- identifying and evaluating relationships between language and culture

#### **Mathematics**

In Mathematics, students in Missouri public schools will acquire a solid foundation that includes knowledge of

# 1. Number and Operations

addition, subtraction, multiplication, and division; estimation and computing techniques; number representations, systems, and relationships; use of these operations and concepts in the workplace and other situations

# 2. Algebraic Relationships

algebraic concepts including patterns, relations, and functions; represent and analyze mathematical structures using algebraic symbols; understand quantitative relationships; analyze change in various contexts

# 3. Geometric and Spatial Relationships

geometric and spatial sense including analysis of characteristics/properties of geometric shapes; arguments about geometric relationships; coordinate geometry; symmetry and transformations; visualization, spatial reasoning, and geometric modeling

### 4. Measurement

measurable attributes of objects and the units, systems, and processes of measurement; use of appropriate techniques, tools, and formulas to determine measurements

#### 5. Data and Probability

data collection and statistical reasoning; formulating questions to be addressed with data analysis and statistics; develop and evaluate inferences based on data; understand and apply probability concepts



# Show-Me Process Standards

The Show-Me Process Standards are grouped by goals. For a more detailed explanation of the process standards, please refer to the Show-Me Standards/GLE Strands document or the DESE website (http://dese.mo.gov/standards/index.html).

# Goal 1—Gather, analyze, and apply information

#### Standards:

- 1. develop research question/ideas
- 2. conduct research
- 3. design/conduct investigations
- 4. organize information using tools
- 5. comprehend/evaluate resources
- 6. discover/evaluate relationships
- 7. evaluate information
- 8. organize data and ideas
- 9. compare past and present societies
- 10. apply information, ideas, skills

# **Goal 2—Communicate effectively**

# Standards:

- 1. plan and make presentations
- 2. revise communications
- 3. exchange ideas and take others' perspectives
- 4. present perceptions and ideas
- 5. produce works in the arts
- 6. apply communication techniques
- 7. use information technology

# Goal 3—Recognize and solve problems

#### Standards:

- 1. identify and define problems
- 2. apply others' strategies
- 3. apply one's own strategies
- 4. evaluate problem-solving processes
- 5. reason logically
- 6. examine solutions from many perspectives
- 7. evaluate strategies
- 8. assess consequences

# Goal 4—Take social responsibility

# Standards:

- 1. support decisions
- 2. understand and apply citizenship rights
- 3. analyze individuals' responsibilities
- 4. practice honesty and integrity
- 5. develop/revise plans of action
- 6. identify cooperative tasks
- 7. apply safety/health practices
- 8. explore/seek opportunities



# Assessment Terms and Types of Scores

Familiarity with the testing terms and the types of scores used in the MAP reports and other components will help you interpret test information accurately and efficiently.

### **MAP Scale Score**

CTB/McGraw-Hill uses the students' correct responses and points earned to derive a MAP Scale Score. The scale score describes achievement on a continuum that in most cases spans the complete range of Grades 3-8, 10 and 11. These scores range in value from 450 to 910, across grade levels and content areas. The MAP score ranges can be found with the achievement-level descriptors beginning on page 6 of this guide. Scale scores can be added, subtracted, and averaged. A student receives a MAP Scale Score only when all sessions of the test have been taken, and that MAP Scale Score determines the student's achievement level.

#### Achievement Levels

Student performance can be reported in terms of four performance, or achievement, levels that describe a pathway to proficiency. Each achievement level represents standards of performance for each assessed content area (Communication Arts and Mathematics). Panels drawn from educational, business, and professional communities determined the standards. Achievement-level scores provide a description of what students can do in terms of the content and skills assessed. These scores are a means of comparing test results with standards of academic performance.

### **TerraNova** National Percentile

National Percentiles (NPs) are determined from a subset of items within the Communication Arts and Mathematics tests. This session is the nationally norm-referenced *TerraNova* Survey. The NPs indicate what percentage of students' scores in the norming sample for a given grade fell below a certain point. For example, a student who is at the twenty-fifth NP scored higher than 25 percent of the norm group. The fiftieth percentile is the middle score—also called the *median*—above and below which half the students scored. NPs should not be added, subtracted, or averaged.

## Median NP

This score is used to describe central tendency. The median is the middle score in a set of ranked scores. It divides the distribution into two equal halves. Medians are less affected by extreme scores than are means. The median is the preferred score for comparing groups that have many very high, or very low, scores.

# NP of the Mean NCE

This score is also used to describe central tendency. The Normal Curve Equivalent (NCE) is an equal-interval scale and can be treated arithmetically. The mean NCE is computed by adding the NCE scores of all the students in the group with MAP scores and then dividing by that number of students. The NP for that "arithmetic average" (mean NCE) is included in the Spring Norms Book for *TerraNova*, *The Second Edition*.

# **Constructed-Response Item**

This is an assessment unit with directions and a question or a problem that requires a written, pictorial, or graphic response. It is sometimes called an *open-ended item*.

# **Selected-Response Item**

This is a question or an incomplete statement that is followed by answer choices, one of which is the correct or best answer. It is also referred to as a *multiple-choice item*.

## Lexile Score

The student's Lexile Score is from *The Lexile Framework* for Reading—a scale that matches reader ability with appropriate reading materials. The score is the point on the scale where a reader can be expected to comprehend 75 percent from a list of recommended reading materials. Note: Lexile scores are only reported for Communication Arts, and are derived from *TerraNova* Reading items only.



# First Steps in Analyzing Data

The MAP reports provide useful information for determining the performance of students in your school and classroom. Emphasis should be placed on identifying students who are below proficiency in a particular test area so that a course of action may be determined that will meet the students' specific needs. The following steps indicate how to use results from these reports to help individuals who have not met the level of proficiency in one or more areas.

- Identify any students who are below proficiency in a test area by looking at the Student Roster. An achievement level of Basic or Below Basic indicates that the student may need assistance in that test area.
- Identify those standards in which a student's performance is low. This is indicated on the Student Report in the area labeled "Content/ Knowledge Standards" in the percent-of-pointsearned column.
- Use Grade Level Expectations and supporting documents from the DESE website (http://dese. mo.gov/standards/index.html) to determine what type of instructional assistance can and should be provided to achieve the Show-Me Standards. Consider whether professional development will be necessary.
- 4. Consider the use of locally designed formative and summative assessments aligned to the Show-Me Standards/GLEs to provide more detailed information for each student in specific test areas to inform local curriculum decisions.

Information about content standards can be very helpful in determining how well students in your school are progressing in each content area. By following the steps below, educators can use the Content Standards Summary Report to review curriculum and instruction.

- Find the local percent on the Content Standards Summary Report.
- For each standard, determine the difference between your local percent and the state percent.
   Mark each standard with a plus (+) if your local percent is higher than the state percent, and a minus (-) if it is below the state percent.
- Beginning with the standards/strands/GLEs that indicate weaknesses, determine the skills measured.
- 4. Review the curriculum to determine the grade and the time of year that students are presented with the knowledge and skills, concepts, applications, and problem-solving strategies necessary to perform the tasks related to the GLEs.
- If these skills are addressed in the curriculum prior to the test dates, determine whether instruction is provided to all students or only to certain groups.
- Review and align the classroom/district formative and summative assessments by which students demonstrate acquisition of the necessary knowledge and skills, concepts, applications, and problem-solving strategies in the GLEs.



# Communication Arts Abbreviated Achievement-Level Descriptors

#### Grade 3

#### **Below Basic**

<u>Reading</u>—Students locate information in text; identify an obvious main idea; define simple words and phrases. <u>Writing</u>—Students show minimal awareness of beginning, middle, end, audience, purpose and controlling idea; attempt to create friendly letters; use graphic organizers.

MAP score range: 455-591.

#### **Basic**

Reading—Students make simple comparisons; recall simple sequence of events; make obvious inferences and predictions; use context clues to determine word meaning. Writing—Students use basic parts of speech correctly in simple sentences; show minimal awareness of beginning, middle, end, audience, purpose and controlling idea.

MAP score range: 592-647.

#### **Proficient**

Reading—Students locate/identify supporting details, obvious cause and effect; make inferences; use context clues to determine word meaning; make comparisons; recall detailed sequence of events; identify solutions and fact vs. fiction; recognize figurative language; draw obvious conclusions. Writing—Students generally use rules of Standard English; show awareness of audience, purpose, controlling idea, relevant details, beginning, middle and end.

MAP score range: 648-672.

#### **Advanced**

Reading—Students identify relevant/supporting information to make predictions and draw conclusions; infer word meaning; infer main idea; make complex comparisons; make complex inferences; categorize information; identify correct sequence of events.

Writing—Students consistently apply rules of Standard English; construct complex sentences; use details effectively; have a clear controlling idea, awareness of audience and purpose, beginning, middle and end.

MAP score range: 673-790.

# Grade 4

#### **Below Basic**

Reading—Students locate information in text; recall stated information; draw obvious conclusions; make simple comparisons and descriptions. Writing—Students write simple letters, minimally use the rules of Standard English; attempt to organize information.

MAP score range: 470-611.

## **Basic**

Reading—Students identify appropriate details; use context clues; make obvious inferences; select vocabulary using context clues. Writing—Students write simple letters with an awareness of an intended audience and purpose; generally use the rules of Standard English.

MAP score range: 612-661.

#### **Proficient**

Reading—Students make simple inferences; recall, identify, and use relevant information; draw conclusions; explain figurative

language and main idea; use context clues to select vocabulary; identify character traits, sensory details, and simple cause and effect. Writing—Students show organization and awareness of an intended audience and purpose; use the rules of Standard English; use a writing process to revise, edit, and proofread.

MAP score range: 662-690.

#### Advanced

Reading—Students make complex inferences and comparisons; evaluate simple information; infer cause/effect and word meaning; interpret figurative language; identify author's purpose; identify complex problems/solutions; explain complex main ideas.

Writing—Students consistently use the rules of Standard English.

MAP score range: 691-820.

## Grade 5

#### **Below Basic**

<u>Reading</u>—Students locate/identify information in text; draw simple conclusions; make obvious inferences and predictions; identify character traits. <u>Writing</u>—Students use correct letter writing format; partially organize information.

MAP score range: 485-624.

#### **Basic**

<u>Reading</u>—Students identify supporting details, problems/solutions; use context clues; make obvious inferences; give partial summary of action. <u>Writing</u>—Students edit for Standard English.

MAP score range: 625-674.

#### **Proficient**

Reading—Students interpret figurative language; infer main idea; identify author's purpose, point of view, the sequence of information, cause/effect, the meaning of vocabulary; summarize; distinguish between fact and opinion; draw conclusions; make inferences and comparisons; support a position. Writing—Students use the rules of Standard English; construct complex sentences; edit for appropriate support, organize information.

MAP score range: 675-701.

#### Advanced

Reading—Students interpret and draw conclusions from complex information; analyze complex characters; infer author's purpose and word meaning; categorize information; make simple evaluations and judgments; determine the appropriateness of a source and the accuracy of information. Writing—Students consistently use the rules of Standard English; use a writing process to organize information.

MAP score range: 702-840.

# Grade 6

#### **Below Basic**

Reading—Students locate/identify information in text; make simple inferences; identify main idea, sensory information, figurative language, simple problems or solutions. Writing—Students show awareness of audience and letter format; use simple organizational techniques and graphic organizers; use simple rules of Standard English.

MAP score range: 505-630.

#### **Basic**

<u>Reading</u>—Students identify supporting information, simple cause/effect relationships, conflicts, point of view and problem-solving processes. <u>Writing</u>—Students use correct letter writing format; generally use the rules of Standard English including spelling; revise; have a controlling idea.

MAP score range: 631-675.

#### **Proficient**

Reading—Students identify author's purpose, supporting details, point of view; describe character traits, plot; identify problems/ solutions; support a position with text-based details; draw conclusions; interpret figurative language; make inferences and predictions; locate resources. Writing—Students use the rules of Standard English; construct complex sentences; write for an audience and purpose; organize information.

MAP score range: 676-703.

#### **Advanced**

Reading—Students make complex connections; analyze complex characters; evaluate the accuracy and importance of information; draw conclusions and make inferences from complex information, analyze complex characters; determine cause and effect; paraphrase. Writing—Students demonstrate consistent use of a controlling idea and Standard English.

MAP score range: 704-855.

#### Grade 7

#### **Below Basic**

Reading—Students locate and apply information in text; identify figurative language, text elements, and problems/solutions, character traits; make obvious predictions. Writing—Students organize information; use some components of letter writing format; generally stay on topic; show awareness of audience and purpose; minimally use rules and conventions of Standard English.

MAP score range: 515-633.

#### **Basic**

Reading—Students identify text-based details; identify main idea; make simple summaries; identify the meaning of figurative language; draw simple conclusions; make simple inferences. Writing—Students use a writing process; edit for appropriate support; revise for a controlling idea; generally use the rules of Standard English.

MAP score range: 634-679.

#### **Proficient**

Reading—Students make inferences; summarize; make comparisons and predictions using complex text; analyze characters; determine word meaning, point of view, supporting information; locate resources. Writing—Students stay on topic; write for a specific audience and purpose; demonstrate consistent use of a controlling idea; use rules and conventions of Standard English; use complex sentences, cohesive devices, clear and varied sentences.

MAP score range: 680-711.

#### Advanced

Reading—Students interpret complex figurative language and vocabulary; support a position; make predictions; summarize, analyze, and synthesize information and techniques; paraphrase ideas. Writing—Students consistently use the rules and conventions of Standard English; use logical order, cohesive devices, clear and varied sentences, writing techniques; target specific audience and purpose.

MAP score range: 712–865.

### Grade 8

#### **Below Basic**

Reading—Students identify author's purpose, figurative language, plot, and setting; use context clues to choose vocabulary.

Writing—Students create a graphic organizer; write a basic paragraph; show some awareness of audience.

MAP score range: 530-638.

#### **Basic**

<u>Reading</u>—Students define simple vocabulary; identify main idea; draw simple conclusions; make simple inferences; recall details from text; determine reliability of resources. <u>Writing</u>—Students write a paragraph to a specific audience.

MAP score range: 639-695.

#### **Proficient**

Reading—Students summarize; infer vocabulary meaning and cause/effect; interpret figurative language; analyze text features; follow multi-step directions; identify author's technique; analyze text; make inferences, interpretations, predictions, comparisons, using complex material; evaluate evidence, reliability of resources. Writing—Students edit for relevant details and purpose; organize and edit text; consistently use rules/conventions of Standard English.

MAP score range: 696-722.

#### **Advanced**

Reading—Students analyze complex information, author's purpose, characters; synthesize information; summarize complex ideas; make complex inferences. Writing—Students edit text correctly applying the rules/conventions of Standard English.

MAP score range: 723-875.

#### Grade 11

#### Below Basic

Reading—Students identify figurative language, plot, setting, and main idea; explain main idea; determine pertinent details.

Writing—Students use correct letter writing format; address a topic with some detail; defend a position; create and label an appropriate graphic organizer.

MAP score range: 545-678.

#### Basic

Reading—Students determine pertinent details; categorize information; determine reliability of information; explain cause/ effect; make simple comparisons; infer meaning; identify main idea; analyze figurative language. Writing—Students attempt to use the rules/conventions of Standard English; create and label an appropriate graphic organizer; compose an essay with a beginning, middle and end.

MAP score range: 679-724.

#### **Proficient**

Reading—Students analyze significant details, figurative language, use of information, characters, reasoning, author's purpose, cause/ effect; infer meaning; summarize complex ideas/information; determine tone; identify supporting information; make sophisticated comparisons; evaluate style; distinguish fact/opinion.

Writing—Students use the rules/conventions of Standard English; write with a controlling idea for a specific audience; use cohesive devices and complex sentences.

MAP score range: 725-752.

#### **Advanced**

Reading—Students evaluate reliability of sources; analyze complex figurative language; infer connections; evaluate adequacy of support; make inferences and comparisons from complex text.

Writing—Students consistently apply the rules/conventions of

Standard English; follow a writing process to compose a well-developed and organized essay with a controlling idea, relevant details; use precise language.

MAP score range: 753-885.

# Mathematics Abbreviated Achievement-Level Descriptors

# Grade 3

# **Below Basic**

Students use multiplication to model situations; recognize that addition and subtraction are inverse operations; add 2-digit numbers; apply subtraction skills; extend shapes or numbers in a pattern; use number sentences to model situations; use transformations to check congruency of shapes; recognize a line of symmetry; use an appropriate unit on a ruler to measure length; estimate length; interpret information from graphs.

MAP score range: 450-567.

#### **Basic**

Students estimate with less-than and greater-than; sort items by size; apply regrouping for adding and subtracting 3-digit numbers; order 3-digit whole numbers; count using numbers and pictures; identify and explain a pattern; use an appropriate unit of measurement; read thermometers; read analog clocks to nearest 5 minutes; use a ruler to measure to the nearest centimeter; compare data; transfer data to graphs.

MAP score range: 568-627.

#### **Proficient**

Students identify odd/even numbers; locate landmark numbers; describe change using increase/decrease; perform basic division of 2-digit whole numbers; identify and locate fractional parts; set up/solve simple word problems; recognize 2-D and 3-D shapes; combine 3-D solids; identify 2-D faces of 3-D objects; determine perimeter of polygons; identify appropriate units of measure; add monetary values up to \$5.00; use calendars to determine dates; estimate length with fractions.

MAP score range: 628-666.

#### **Advanced**

Students estimate and justify results of addition/subtraction of numbers; represent a mathematical situation as a number sentence or an expression; identify multiple lines of symmetry; determine change from \$5.00 including different combinations of coins; predict events as likely or unlikely.

MAP score range: 667-780.

### Grade 4

## **Below Basic**

Students write and compare decimals to the hundredths place; identify fraction as a part of a whole; describe the results of combining shapes; identify parallel lines; estimate linear measurements; read and compare data on a bar graph; complete tables; create tables or graphs to represent data.

MAP score range: 465-595.

#### Basic

Students use multiplication to solve problems; analyze patterns using words, tables, and graphs; identify the missing value in a number sentence; identify 2-D and 3-D shapes and attributes; identify the results of transformations; tell time to the nearest minute; use benchmarks to estimate linear measurements; transfer numerical data to a graph; propose and justify conclusions that are based on data.

MAP score range: 596-650.

#### **Proficient**

Students compare parts of a whole as fractions; identify place value up to 6-digit whole numbers; decompose/compose whole numbers; represent multiplication using sets/arrays; divide 3-digit by 1-digit numbers; write a number sentence; describe movement on grid using geometric vocabulary; identify lines of symmetry; use standard/metric units to measure; add/subtract money values to \$10.00; determine area on grid; read/interpret data on a line plot; analyze and explain data.

MAP score range: 651-687.

#### **Advanced**

Students describe constant rates of change; identify strategies to solve problems; describe numeric and geometric patterns; solve problems using graphs, tables, or number sentences; construct a figure with one line of symmetry; determine differences in measures; estimate measurement of angles; determine change from \$10.00; identify equivalent linear measures within a system; count combinations of items.

MAP score range: 688-805.

# Grade 5

### **Below Basic**

Students recognize equivalent representations of numbers by composing and decomposing numbers up to 5 digits; order decimals to thousandths place; interpret place value to hundred-thousands; determine operations used in numeric patterns; use symmetry to complete figures; make generalizations about geometric patterns; describe attributes of 2-D shapes; identify data on a line graph; make and justify predictions using data; describe, compare, and organize data in a bar graph.

MAP score range: 480-604.

#### Basic

Students identify place value to the millions place; read, write, and compare unit fractions and decimals to the thousandths place; identify lines of symmetry; identify appropriate units of area; identify appropriate units of measure; use data to create a bar graph and perform calculations using numbers between given intervals.

MAP score range: 605-667.

#### **Proficient**

Students multiply decimals to the hundredths place; use estimation in computations; divide 3-digit by 2-digit numbers; add fractions with like denominators; solve problems involving rates of change; extend numeric patterns; complete number sentences; identify faces of 3-D and similar figures; interpret direction on a coordinate grid; calculate area using a grid; compute elapsed time in hours; analyze data in line graphs and tables; explain the probability of a simple event.

MAP score range: 668-705.

#### **Advanced**

Students use addition/subtraction of money in a real-world situation; explain and justify the results of calculations; justify and model the results of calculations involving constant rates; use number sentences to model a mathematical situation; analyze characteristics of and identify 3-D figures, quadrilaterals, and angle measures; use a coordinate grid to describe paths and determine distances between points; convert between standard units of measurement.

MAP score range: 706-830.

### Grade 6

#### **Below Basic**

Students compare and order integers, positive rational numbers, and percents; describe patterns in tables and pictures; identify properties of 2-D and 3-D shapes; identify acute, obtuse, or right angles; identify transformations of 2-D shapes; identify equivalent algebraic expressions using the associative property; read and interpret line and circle graphs.

MAP score range: 495-627.

#### Basic

Students generate equivalent forms of percents, fractions and decimals; determine a rule for a geometric or numeric pattern; use coordinate geometry to construct and identify 2-D shapes using ordered pairs; use models to compare and explain probabilities; estimate and interpret data in graphs.

MAP score range: 628-680.

### **Proficient**

Students add/subtract positive rational numbers; identify least common multiple and greatest common factor; estimate quotients; determine rate of increase; analyze rates of change; use variables; compare spatial views of 3-D objects; construct polygons; describe transformations; determine area of rectangles; measure angles; convert within a system of measure; interpret and complete a table based on probability; compare/explain data; calculate measures of center.

MAP score range: 681-720.

#### Advanced

Students estimate and convert measurements; describe solutions to algebraic equations; recognize similarities between 2-D shapes; use properties of basic figures to draw conclusions about angle size; determine area of triangles; solve elapsed time problems; apply formula for perimeter; estimate area of a figure using a coordinate grid; interpret stem-and-leaf plots; determine appropriate data collection methods and questions; interpret data to solve problems.

MAP score range: 721-845.

### Grade 7

#### **Below Basic**

Students place integers on a number line; identify shapes from a group of 2-D shapes based on a common property; transform 2-D shapes; analyze precision and accuracy using measurement tools; identify unit of measure for volume; interpret bar graphs; use representations of data from bar graphs, circle graphs, stem-and-leaf plots, and box-and-whisker plots; predict outcomes using probability.

MAP score range: 510-639.

#### **Basic**

Students multiply and divide positive rational numbers; identify bases and exponents of numbers in exponential form; recognize equivalent numerical representations; solve 2-step problems; use variables to solve inequalities and equations; analyze patterns represented numerically or graphically; read and interpret graphs.

MAP score range: 640-684.

#### **Proficient**

Students read/write numbers up to hundred-millions place; compare integers, rational numbers, percents; perform operations with mixed numbers; use circle graphs to recognize relationship of parts to whole; solve fraction/decimal/percent problems; solve proportion/scale problems; use models to solve problems; model with equations; describe and classify 2-D/3-D shapes; apply spatial reasoning to estimate area; solve time problems; solve area problems; calculate measures of center.

MAP score range: 685-723.

#### **Advanced**

Students calculate totals involving percents in multi-step problems; extend non-linear patterns; model with inequalities; apply the relationship of corresponding and similar angles; use scale factors on a grid to dilate shapes; describe corresponding angles and sides of similar polygons; solve problems using time conversions; find circumference and area of circles; make conversions using proportions.

MAP score range: 724-860.

#### Grade 8

# **Below Basic**

Students generalize numeric patterns; generalize relationships between attributes of 2-D shapes; identify the results of subdividing 3-D shapes; identify 3-D figures using a 2-D representation; solve problems involving area; use scales to estimate distance; interpret graphs; find the mean value of a data set; select graphical representations of data; interpret data; make conjectures based on theoretical probability.

MAP score range: 525-669.

#### **Basic**

Students perform operations with rational numbers; solve and interpret one-step linear equations; extend geometric patterns; generalize patterns to find a specific term; identify relationships in 3-D objects; calculate the theoretical probability of an event; interpret a scatter plot to determine the relationship between two variables.

MAP score range: 670-709.

#### **Proficient**

Students identify equivalent representations of a number; identify mental strategies to solve problems; solve multi-step equations; use symbolic algebra; identify transformations; classify angles; create similar polygons; use coordinate geometry; solve problems involving area; identify appropriate units of measure; convert standard units within a system of measurement; interpret graphic organizers; calculate measures of center.

MAP score range: 710-740.

#### **Advanced**

Students estimate the value of square roots; write numbers using scientific notation; solve two-step inequalities; analyze slope and intercept in linear equations; apply the Pythagorean Theorem using coordinate geometry; identify polygons based on their attributes; identify coordinates of vertices of a transformed polygon; use a protractor to measure angles; solve problems involving surface area; select, create, and use appropriate graphical representation of data.

MAP score range: 741-885.

#### Grade 10

#### **Below Basic**

Students use rules of exponents to create equivalent numbers; extend and generalize numerical patterns; use visual models to represent 3-D figures; use constructions to represent reflections; determine volume of geometric figures; use diagrams to estimate measurements; predict outcomes using probability.

MAP score range: 555-694.

#### **Basic**

Students compute numbers mentally; determine an equation that represents a quantitative relationship; use algebraic relationships to solve problems; solve for angles of parallel lines cut by a transversal; identify characteristics of surveys and sample groups; calculate central tendencies; use graphical representation of data.

MAP score range: 695-737.

#### **Proficient**

Students justify estimates; solve problems using coordinate planes; solve quadratics; evaluate algebraic expressions; identify an appropriate mathematical model based on data; identify equivalent algebraic expressions; solve area problems; analyze precision of computations; use unit analysis to solve problems; use proportions to solve conversion and rate problems; apply statistical concepts; describe shape of distribution of data.

MAP score range: 738-784.

#### Advanced

Students apply formulas to solve problems on a coordinate plane; use rules of exponents to simplify expressions; determine the equation of a straight line on the coordinate plane; compare linear properties of functions; compare area of similar polygons; determine compound probability; evaluate accuracy of a graph.

MAP score range: 785-910.



# Sample Reports

# **Features Included on All Reports**

**A** The assessment series name always appears here for easy identification.

**B** The name of the report is presented next. In this example, it is the Student Roster.

**©** This area of the report is reserved for the name of the individual or group taking the assessment.

• The grade level of the individual or group is always included on the reports. Each report contains results for one grade level.

Every report contains a purpose statement (the reason for the report and how the information may be used).

The lower part of the left panel provides the information about the test and the students. This information includes the following:

Test date (first day of testing window)

**G** School, district, city, and state (all data not necessarily included on every report)

Missouri Assessment Program (MAP)	
Student Roster <sub>(3)</sub>	
School: PINE VALLEY	
Grade: 8 <b>O</b>	••••••
Simulated Data	
Purpose The roster provides a permanent record of test results for students in a class or some other specified group. It also	•••••
provides summary data for the group. The results may be used to evaluate individual and group achievement. Descriptions of the achievement levels can be found on the back of this report.	
Test Date: 03/27/06  CODES: 048-078-2569 District: BIG CREEK State: MISSOURI	
G	-
City/State: ANYWHERE, MO	

# **Student Roster**

The Student Roster provides a permanent record of test results for students in a school by content-area/grade-level assessment. It also provides summary data for the group. The results may be used to evaluate individual and group achievement. Descriptions of the achievement levels can be found on the back of each report page.

A This report presents group results. Students are listed alphabetically with a group summary at the end of the student listing. Read horizontally for the individual student's performance and vertically to the end of the listing for group performance. There are five columns of information.

**B** The information in the first column reflects what the district indicated on the Student Information Sheet at the time of testing.

The second column is the MAP achievement level. A student must take all sessions in order to receive a MAP Scale Score and achievement level. The assigned level is given along with the score range for the student's achievement level and the student's actual assigned MAP score. The student's MAP score can be compared with the MAP score range for the level to determine how close the student is to the next-higher level. It may also show that a student just reached the level reported.

The third column is the *TerraNova* National Percentile (NP) score. *TerraNova* NPs are given to students who took the NP subset of items in the test. Sessions 1 and 2 do not contribute to this score. This score compares each student's performance to that of the national sample group. An NP score of 65, for example, means that the student's score is higher than the scores of 65 percent of the students in the national sample group for that student's grade.

The fourth column gives the student's Lexile Score from *The Lexile Framework for Reading*—a scale that matches reader ability with appropriate reading materials. The score is the point on the Lexile scale where a reader can be expected to comprehend 75 percent from a list of recommended reading materials. Note: Lexile scores are only reported for Communication Arts, and are derived from *TerraNova* Reading items only.

**6** This column gives the reason an achievement level was not determined, if applicable.

**G** The scores of the students on the roster are summarized on the last page of the roster. The average MAP score is reported, as well as the median NP and the number and percentage of students at each achievement level.

Missouri	Mathemati	cs		
Assessment	Missouri Assess Achievement Le	nent Progra vel	m	TerraNova National Percentile
Program (MAP)	Students with a MAP score: 42	reportable		Students taking Session 3: 43
	Mean MAP scor	e: XXX.X		Median NP: 49.6
Student Roster		# of Stdnts	% of Stdnts	
School: PINE VALLEY	Advanced	4	10	
Grade: 8	Proficient	8	20	
Simulated Data	Basic	16	38	
'urpase	Below Basic	11	26	
The roster provides a permanent record of test results for students in a class or some other specified group. It also orovides summary data for the group. The results may be used to evaluate notividual and group achievement. Descriptions of the achievement levels can be found on the back of this report.				

		<b>③</b>			
Assessment	<b>©</b>	Communication Arts	0	•	•
Program	Student Name	Missouri Assessment Program Achievement Level	TerraNova NP	Lexile Score	Reason for Level Not Determined **
(MAP) Student Roster	ADAMS SARAH Birthdate: 03/21/90 MOSIS State ID: 012456789 District Student ID: 9876543210	×	* *		** Session 1: Invalidated ** Session 2: No valid attempt
School: PINE VALLEY	<b>BAIRD</b> Birrhdate: 03/23/90  MOSIS State ID: 1234567890  District Student ID: 8765422109	Proficient MAP score range: 696-722 MAP score: 702	NP: 55	Lexile: 1235	
1 102 1 1	BROWN STEVE Birthdate: 03/25/90 MOSIS State ID: 2345078910 District Student ID: 7765432109	Below Basic MAP score range: 530-638 MAP score: 588	NP: 10	Lexile: 1233	
Purpose The roster provides a permanent record of test results for students in a class or some other specified group. It also provides summary data for the group.	BRUDOWSKI ANN Birthdate: 03/27/90 MOSIS State ID: 2345678919 District Student ID: 7765432100	Proficient MAP score range: 696-722 MAP score: 711	NP: 75	Lexile: 1236	
Inerresults may be used to evaluate infinitivitian and group achievement. Descriptions of the achievement levels can be found on the back of this report.	EVENS BETTY L Burthdate: 03/29/90 MOSIS State ID: 334567/8910 District Student ID: 6665422109	ž	× ×		$^{\star\star}$ Exempt from taking Comm. Arts test ELL $< 1~\text{yr}$
The second of th	FRANKS ALAN Birthdate: 03/31/90 MOSIS State ID: 0045678910 District Student ID: 0065432109	Advanced MAP score range: 723-875 MAP score: 795	NP: 82	Lexile: 1238	
The state of the s	<b>GARCIA</b> IAN W Birthdate: 04/01/90 MOSIS State ID: 0005678910 District Student ID: 0005432109	×	ž		** Eligible for MAP-Alternate Assessment
ONE OF THE PARTY O	HOFFMAN DEBBIE Birthdate: 04/03/90 MOSIS State ID: 0000678910 District Student ID: 0000432109	Basic MAP score range: 639-695 MAP score: 659	NP: 17	Lexile: 1233	
, ces	LANG SCOTT C Birthdate: 04/05/90 MOSIS State ID: 2345678910 District Student ID: 7765432109	Proficient MAP score range: 696-722 MAP score: 709	NP: 61	Lexile: 1237	

# **Student Label**

The label can be affixed to a student's permanent folder, thereby providing a record of the student's achievement on the MAP.

# **Student Report**

The Student Report provides information about performance on the MAP, describing results in terms of four levels of achievement in a content area. It is used for instructional planning, as a point

Missouri	Content Area	Communication Arts
Assessment Program	Achievement Level	Proficient
WEBBER, PEGGY	Missouri Assessment Program (MAP) Score	727
Grade: 11	MAP Score Range	725-752
Test Date: 03/27/06	The state of the s	
DOB: 02/26/90	TerraNova NP	64
MOSIS State ID: 0123456789	Lexile Score	1234
	·····	I

of reference during a parent/teacher conference, and for permanent record keeping. Other sources of information should be used along with this report when determining the student's areas of strength or need.

Achievement-level scores describe what students can do in terms of the content and skills assessed by the MAP. Teachers, students, and parents/guardians can use this information to determine what skills and abilities need to be acquired to enable the student to progress to higher achievement levels. A student in the Proficient or Advanced level has met the standard. Students in the Below Basic and Basic levels need to work on the skills described in that level, as well as skills in the next-higher level.

A The graphed bar extends horizontally, reflecting the student's MAP Scale Score, which is also printed to the left of the graph. This score may be compared to the MAP score range at the bottom of the Descriptions text for the level. The comparison shows how close the student is to the next-higher level. "MAP scale score" denotes the completion of all test sessions. If one or more test sessions were not taken, the student would not have a MAP Scale Score or an assigned achievement level.

This section identifies the number of points possible and the percent of points earned for each Content/
Knowledge Standard (Grade Level Expectation Strand). The number of points possible is given so that you may see
the weight of the standard in the MAP. Ranking the percent of points earned from low to high indicates the content/
knowledge areas most in need of improvement.

This section identifies the number of points possible and the percent of points earned for each Process/Performance Standard.

The *TerraNova* National Percentile is a nationally norm-referenced score that compares the student to a normative sample of students in the nation. In this example, the student has an NP score of 64, which means she scored better than 64 percent of the students in the nation who took *TerraNova*.

The student's Lexile Score is from *The Lexile Framework for Reading*—a scale that matches reader ability with appropriate reading materials. The score is the point on the scale where a reader can be expected to comprehend 75 percent from a list of recommended reading materials. Note: Lexile scores are only reported for Communication Arts, and are derived from *TerraNova* Reading items only.

The back side of each report page features an explanation to assist parents/guardians in understanding the report. This explanation will help in discussing each student's results and is suitable for sending home to parents.

# **Summary Report**

The Summary Report shows the number and percentage of students locally in each of the four achievement levels. Instructional priorities can be established using this information along with data from other district sources.

A Students in the Reportable column include all students who made a valid attempt on all sessions of the MAP. These students received a MAP achievement-level score and are represented in their respective achievement levels in both the Reportable and Accountable columns. The total number of students in the Reportable category and the percent calculations for each achievement level include only those students with a MAP achievement-level score.

**B** The total number of students in the Accountable column should equal the grade-level enrollment at the time the MAP was administered.

The number of students reported in each of the four achievement levels is the same for "Reportable" and "Accountable" because only students with a valid attempt on all sessions of the test are assigned an achievement level. The percentage of students in the Reportable column is based on the sum of all four achievement levels. The Accountable column adds a "Level Not Determined" that includes all students who do not have an assigned achievement level. The percentage of students is based on the sum of all four levels plus Level Not Determined.

The report gives "can do" statements (descriptions) for each achievement level. Students at a given level can perform the majority of what is described for that level and even more of what is described for the levels below. Students may also be capable of performing some of the goals described in the next-higher level.

**D** TerraNova National Percentile summary scores provide comparisons across grades and content areas. Consideration should always be given to the number of students contributing to mean or median scores. Larger numbers of students yield a more stable, reliable picture of performance.

Missouri	;			
Assessment	Mathematics	S		
rogram (MAP)	Achievement Levels	(A) Reportable	(B) Accountable	Descriptions
School: PINE VALLEY	ADVANCED	1.7 3 Students	17 3 Students	Students estimate the value of square roots; write numbers using scientific notation; solve two-step inequalities; analyze slope and intercept in linear equations: apply the Pythagorean Theorem using coordinate geometry; identify polygons based on their attributes; identify coordinates of vertices of a transformed polygon; use a protractor to measure angles; solve problems involving surface area; select, create, and use appropriate graphical representation of data.  MAP score range: 741-885.
Grade: 8  Simulated Data  Purpose This report shows the number and percent of students locally in each of		FICIENT 10%	<b>9%</b>	Students identify equivalent representations of a number; identify mental strategies to solve problems; solve multi-step equations; use symbolic algebra; identify transformations; classify angles; create similar polygons; use coordinate geometry; solve problems involving area; identify appropriate units of measure; convert standard units within a system of measurement; interpret graphic organizers; calculate measures of center.  MAP score range: 710-740.
the four achievement levels. Instructional priorities can be established using this information along with other sources.	BASIC	29% 	27% 27% 96 Students	Students perform operations with rational numbers; solve and interpret one-step linear equations; extend geometric patterns; generalize patterns to find a specific term; identify relationships in 3-D objects; calculate the theoretical probability of an event; interpret a scatter plot to determine the relationship between two variables.  MAP score range: 670-709.
The second secon	ر او	38% 125 Students	<b>37%</b>	Students generalize numeric patterns; generalize relationships between attributes of 2-D shapes; identify the results of subdividing 3-D shapes; identify 3-D figures of 2-D representation; solve problems involving area; use scales to estimate distance; interpret graphs; find the mean value of a data set; select graphical representations of data; interpret data; make conjectures based on theoretical probability.  MAP score range: 525-669.
Test Date: 03/27/06	LEVEL NOT DETERMINED	DETERMINED	<b>6%</b> 20 Students	Students in this category are absent or did not have a valid attempt on one or more test sessions. A valid attempt on all sessions of the test is necessary in order to receive a MAP score. The valid attempt rules are as follows:  1. Attempt any five items or get one correct in the TerraNova item group.  2. Attempt one item in each session for all other test sessions.
CODES: 048-078-2569		ents <b>257</b>	277	
State: MISSOURI	Terranova National Percentile  NP of Mean NCE*: 55 "Accool Median NP: 54.0 level."]  To Students with 330 achieve  *National Percentile of the Mean Normal Curve Equivalent	Percentile   55   54.0   330   6 Mean Normal Curve	The number of s "Accountable" b level. The percer Accountable coll achievement leve Equivalent	The number of students reported in each of the 4 achievement levels is the same for "Reportable" and "Accountable" because only students with a valid attempt on all sessions of the test are assigned an achievement levels. The percentage of students in the Reportable column is based on the sun of all 4 achievement levels. The Accountable column adds a "Lovel Not Determined" that includes all students who do not have an assigned achievement level. The percentage of students is based on the sun of all 4 levels plus Level Not Determined.

# **Content Standards Summary Report**

The Content Standards Summary Report provides general indications of local strengths and needs on the Content Standards/GLE Strands, based on comparisons of local scores to state results. This information will be useful in refining curriculum and planning instruction.

These are the Content Standards/GLE Strands measured by the MAP. See page 2 of this guide for information about these standards.

**B** The Mean Percent Points Correct shows the average number of score points correct for a group of students. For example, if your local group has a mean percent points correct of 49 percent, your students, on average, got 49 percent of the score points correct for a specific Content Standard/GLE Strand. Score points, rather than the number of items correct, are counted, because some of the constructed-response items and performance events have multiple score points possible.

**When comparing local mean percent points correct to the state mean percent points correct, always take into consideration your local confidence band. If the state mean percent points correct is within the range of your local confidence band, your school or district is doing as well as the state. If your confidence band is above the state mean percent points correct, your school or district is above the state average.** 

### What does the confidence band mean?

Each school or district represents a sample of the state's population. In small schools, reporting results for a small number of students leads to an inability to ensure that the percent reported adequately represents the school or district. This is referred to as *sampling error*. Because of the small sample size, small schools are given a greater benefit of the doubt, or confidence band, than large schools. Therefore, when comparing your mean percent points correct with those of the state, this sampling error is always taken into consideration.

# to be certain that the percent of points reported adequately represents the school or district. This situation is a result of sampling Each school or district represents a sample of the state's population. When reporting results for a small number of students, it is difficult error. Thus, small schools or districts are given a greater "benefit of the doubt," or confidence band, than large schools or districts. This report shows your confidence band, which allows you to take this Confidence Band State 9 sampling error into account when comparing your mean percent points correct with those of the state. 6 80 2 62% %09 ■ 809 8 Mean Percent Points Correct: ▲ Local 20 Interpretation of Confidence Bands %68 36% 38% **@** 4 30 50 Performance on Show-Me Standards - Mathematics 9 algebraic concepts including patterns, relations, and functions; represent and analyze mathematical structures using algebraic symbols; understand quantitative relationships; analyze change addition, subtraction, multiplication, and division; estimation and computing techniques; number representations, systems, and relationships; use of these operations and concepts in the work/place and other situations 3. geometric and spatial sense including analysis of characteristics/properties of geometric shapes; arguments about geometric relationships; coordinate geometry; symmetry and transformations; visualization, spatial reasoning and data collection and statistical reasoning; formulating questions to be addressed with data analysis and statistics; develop and evaluate inferences based on data; understand and apply of possible points that a group of students earned on the items assessing a particular content standard/GLE of 60% of the points possible on the items associated with this standard/GLE strand. measurable attributes of objects and the units, systems and processes of measurement; use of appropriate techniques, tools, and formulas to determine measurements strand is 60%, you know that they earned an average (or arithmetic mean) percentage of the total number points correct on a particular content standard/GLE "Mean Percent Points Correct" indicates the average strand. For example, if your students' mean percent Interpretation of Mean Percent Points Correct Content Standards/GLE Strands (no. of points possible = 13) (no. of points possible = 17) (no. of points possible = 19) (no. of points possible = 15) (no. of points possible = 12) probability concepts geometric modeling in various contexts This report provides general indications of local strengths and needs on the content standards, based on comparisons of local scores to state results. This information will be useful as you refine curriculum and plan instruction. **Content Standards** Summary Report Simulated Data Number of Reportable Students: (MAP) Program District: BIG CREEK City/State: ANYWHERE, MO Assessment Missouri CODES: 048-078 State: MISSOURI Test Date: 03/27/06 Grade: 8 Purpose

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# **Disaggregate Report**

The Disaggregate Report presents disaggregated results for specific categories (or subgroups) of students. These data are compiled from *reportable* scores and may be used to prepare the Annual School District Report Card.

- A These are the populations (groups) that are represented in the report.
- **1** These are the student-status categories for which achievement-level data are provided. The information for the categories is collected from the Student Identification Sheets on the test books.
- The Number of Reportable Students represents all students who received a MAP achievement level.
- The Achievement Levels represent the number of students and the percentage of students in each achievement level by group and category. A student in the At or Above Proficient group has met the MAP standard. Results are not provided for categories with fewer than five students.
- The *TerraNova* median NP is a nationally norm-referenced score. The score represents the middle score for the particular group or category. Fifty percent of the scores are below this score, and 50 percent are above it. Results are not provided for categories with fewer than 10 students.

Marchele	6	Mathematics	<b>③</b>	Achievement Levels	evels.	•			<b>G</b> TerraNova #
BIG CREEK   African   Af	$Program \ (MAP)$		Number of Reportable Students	Advanced	Proficient	z			dian tional centile
Date   Creek   Compare	Disaggregate	MISSOURI	47116			15548	<del> </del>	31	54.4
Checker   Chec	Report	BIG CREEK	460			234	64	4	56.8
Cender Female   92   6   7   28   2   41   45   17   18     Male		CREEK ELEM	230			117	32	14	56.8
Female   92   6   7   28   2   41   45   17   18     Male   104   8   8   28   10   53   51   15   14     No Response   24   1   4   8   13   54   2   8     Statish Padific Islander   24   3   13   8   21   10   42   3   13     Hispanic   48*   4   8   14   8   25   51   10     White (not Hispanic)   40*   1   2   17   8   25   51   10     No Response   0		Gender					***		
No Response		Female	92			41	17	18	61.4
No Response   34   0   0   11   32   23   68   0   0	Simulated Data	Male	104			23	15	41	52.3
Native American		No Response	34			23	••••	0	41.0
Asian/Pacific Islander 24 1 4 8 8 13 54 2 8 8 4 8 4 13 54 2 8 8 4 14 8 8 21 10 42 3 13 41 4 8 8 21 10 42 3 13 41 4 8 14 8 25 51 6 12 8 14 8 8 14 8 25 51 6 12 8 14 8 8 14 8 8 14 8 8 14 8 8 14 8 8 14 8 8 14 8 8 14 8 8 14 8 8 14 8 8 14 8 8 14 8 8 14 8 8 14 8 8 14 8 8 14 8 8 14 8 8 14 8 8 14 8 8 14 8 8 14 8 8 14 8 8 14 8 8 14 8 8 14 8 8 14 8 8 14 8 8 14 8 8 14 8 8 14 8 8 14 8 8 14 8 8 14 8 8 14 8 8 14 8 8 14 8 8 14 8 8 14 8 8 14 8 8 14 8 8 14 8 8 14 8 8 14 8 8 14 8 8 14 8 8 14 8 8 14 8 8 14 8 8 14 8 8 14 8 8 14 8 8 14 8 8 14 8 8 14 8 8 14 8 8 14 8 8 14 8 8 14 8 8 14 8 8 14 8 8 14 8 8 14 8 8 14 8 8 14 8 8 14 8 8 14 8 8 14 8 8 14 8 8 14 8 8 14 8 8 14 8 8 14 8 8 14 8 8 14 8 8 14 8 8 14 8 8 14 8 8 14 8 8 14 8 8 14 8 8 14 8 8 14 8 8 14 8 8 14 8 8 14 8 8 14 8 8 14 8 14 8 8 14 8 8 14 8 8 14 8 8 14 8 8 14 8 8 14 8 8 14 8 8 14 8 8 14 8 8 14 8 8 14 8 8 14 8 8 14 8 8 14 8 8 14 8 8 14 8 8 14 8 8 14 8 8 14 8 8 14 8 8 14 8 8 14 8 8 14 8 8 14 8 8 14 8 8 14 8 8 14 8 8 14 8 8 14 8 8 14 8 8 14 8 8 14 8 8 14 8 8 14 8 8 14 8 8 14 8 8 14 8 8 14 8 8 14 8 8 14 8 8 14 8 8 14 8 8 14 8 8 14 8 8 14 8 8 14 8 8 14 8 8 14 8 8 14 8 8 14 8 8 14 8 8 14 8 8 14 8 8 14 8 14 8 14 8 14 8 14 8 14 8 14 8 14 8 14 8 14 8 14 8 14 8 14 8 14 8 14 8 14 8 14 8 14 8 14 8 14 8 14 8 14 8 14 8 14 8 14 8 14 8 14 8 14 8 14 8 14 8 14 8 14 8 14 8 14 8 14 8 14 8 14 8 14 8 14 8 14 8 14 8 14 8 14 8 14 8 14 8 14 8 14 8 14 8 14 8 14 8 14 8 14 8 14 8 14 8 14 8 14 8 14 8 14 8 14 8 14 8 14 8 14 8 14 8 14 8 14 8 14 8 14 8 14 8 14 8 14 8 14 8 14 8 14 8 14 8 14 8 14 8 14 8 14 8 14 8 14 8 14 8 14 8 14 8 14 8 14 8 14 8 14 8 14 8 14 8 14 8 14 8 14 8 14 8 14 8 14 8 14 8 14 8 14 8 14 8 14 8 14 8 14 8 14 8 14 8 14 8 14 8 14 8 14 8 14 8 14 8 14 8 14 8 14 8 14 8 14 8 14 8 14 8 14 8 14 8 14 8 14 8 14 8 14 8 14 8 14 8 14 8 14 8 14 8 14 8 14 8 14 8 14 8 14 8 14 8 14 8 14 8 14 8 14 8 14 8 14 8 14 8 14 8 14 8 14 8 14 8 14 8 14 8 14 8 14 8 14 8 14 8 14 8 14 8 14 8 14 8 14 8 14 8 14 8 14 8 14 8 14 8 14 8 14 8 14 8 14 8 14 8 14 8 14 8 14 8 14 8 14 8 14 8 14 8 14 8 14 8 14 8 14 8 14 8 14 8 14 8 1		Race/Ethnicity				••••	••••		
Asian/Pacific Islander   24   3   13   8   21   10   42   3   13     Black (not Hispanic)   49*   2   9   6   9   12   52   3   13     Hispanic   40*   4   8   14   8   25   51   6   12     White (not Hispanic)   40*   1   2   X   X   X   X   X   X   X   X   X	rulpose This report presents disaggregated results	Native American	24			13	2	8	39.8
Black (not Hispanic)	for specific categories (or subgroups) of	Asian/Pacific Islander	24			10	ი	13	60.2
Hispanic Hispanic 48* 4 8 14 8 25 51 6 12  White (not Hispanic) 40* 1 2 17 8 25 52 5 10  No Response 0 X X X X X X X X X X X X X X X X X X	students. These data are compiled from	Black (not Hispanic)	49*			12	е	13	50.2
White (not Hispanic)	repare the Annual School District Report	Hispanic	48*			25	9	12	43.6
B   Student Status   Data not completed for mock-up purposes	Card.	White (not Hispanic)	40*			25	5	10	40.9
Student Status  IEP Non-IEP Non-IEP IAP (504) ELL - In USA < Yr ELL - In USA < 3 Yrs ELL Monitoring ELL Receiving Services Gifted Migrant Title I In building < Yr In district < Yr Free/Reduced Lunch Non-F/R Lunch H.S. Career Education Voluntary Transfer Student  # The TerraNova median percentile is based on the scores of all stude  # Scores are not disparanted for fower than 5 students  # Scores are not disparanted for flower than 5 students		No Response	0			×	×	×	*
IEP  Non-IEP  Non-IEP  IAP (504)  ELL - In USA < Yr  ELL - In USA < 3 Yrs  ELL Monitoring  ELL Receiving Services  Gifted  Migrant  Title I  In building < Yr  In district < Yr  Free/Reduced Lunch  Non-F/R Lunch  H.S. Career Education  Voluntary Transfer Student  # The TerraNova median percentile is based on the scores of all stude  X Scores are not disparanted for fower than 5 students	•	Student Status							
Non-IEP IAP (504) ELL - In USA < Yr ELL - In USA < 3 Yrs ELL Monitoring ELL Receiving Services Gifted Migrant Title I In building < Yr In district < Yr Free/Reduced Lunch Non-F/R Lunch H.S. Career Education Voluntary Transfer Student  # The TerraNova median percentile is based on the scores of all stude X Scores are not disparanted for fower than 5 students		ЕР	••••	Data no	t completed for	. mock-up purpo	ses		
#x		Non-IEP			-	- - -	••••		
HX H		IAP (504)					••••		
TO THE STATE OF TH	and and	ELL - In USA < Yr				•••••	•••••		
HX	Y	ELL - In USA < 3 Yrs					••••		
H A A A A A A A A A A A A A A A A A A A		ELL Monitoring				•••••	•••••		
TO THE TOTAL THE TAX T	The state of the s	ELL Receiving Services	••••			••••	••••		
F	the sum of the state of the sta	Gifted	••••			••••	•••••		
FO F		Migrant	••••			••••	••••		
PT OF T OF		Title I				•••••	••••		
PT OF T		In building < Yr	••••			•••••	••••		
PT OF T		In district < Yr				••••	••••		
PT OF   #x	Test Date: 03/27/06	Free/Reduced Lunch				•			
PT OF #*		Non-F/R Lunch	••••			••••	••••		
PT OF #x	1	H.S. Career Education	••••			••••	••••		
**×	District: ANYDISTRICT State: MISSOURI STATE DEPT OF	Voluntary Transfer Studen	Ţ.						
			is based on the score	s of all students with a	valid attempt on th	e TerraNova Sessio			



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